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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/715,146	10/715,146 11/17/2003		Shin Kamei	14321.59 1904		
22913	7590	04/07/2006		EXAMINER		
WORKMA			WONG, ERIC K			
(F/K/A WORKMAN NYDEGGER & SEELEY) 60 EAST SOUTH TEMPLE				ART UNIT	PAPER NUMBER	
1000 EAGLE GATE TOWER				2883		
SALT LAKE CITY, UT 84111				DATE MAILED: 04/07/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/715,146	KAMEI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Eric Wong	2883					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 18 Ja	nuary 2006.	•					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.						
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims		•					
4)⊠ Claim(s) <u>1,2,7,10,16,19,34,37,139 and 142</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2,7,10,16,19,34,37,139 and 142</u> is/are rejected.							
,	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) ☐ The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119	•						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		ψ.					
Attachment(s)	" []	(070, 440)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed 1/18/06, with respect to the rejection(s) of claim(s) 1 have been fully considered and are persuasive based upon amendment. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of United States Patent Number 6,304,687 to Inoue et al (hereinafter Inoue).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-2, 7, 10, 16, 19, 34, 37, 139 and 142 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent Number 6,304,687 to Inoue

Inoue discloses in figures 8-9, 14, and 17, an optical waveguide circuit comprising:

- An optical waveguide (4);
- A first loss component for causing a diffraction loss to light propagating through
 said optical waveguide (42/43); and
- A second loss component provided at least one of before and after said first loss component (46),
- Wherein said second component includes a region where light confinement is weakened with respect to said optical waveguide and the width of the region is determined such that a diffraction loss in the region becomes smaller than the

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diffraction loss in the first component (item 46 is a waveplate and as such would appear to have smaller diffraction loss than a groove), and

Wherein the spacing between the first loss component and the region is
determined at such a distance that the light passing through the region can reach
the first loss component before a leakage of the light at the region completely
turns to radiation (it is noted that no type of radiation is disclosed and that light is
a form of radiation)

As to claim 2, the spot size would change in the structure disclosed in figure 37B.

As to claim 7, silica-glass is used.

As to claim 10, a groove is formed by removing part of the cladding and core of the optical waveguide.

As to claims 16 and 19, the groove is filled with temperature sensitive material.

As to claim 34, a waveguide plate as disclosed would inherently have to fill a gap made in the core.

As to claim 37, thin film polyimide is used (polyimide is a common material used in claddings).

As to claims 139 and 142, the second loss component has a specific refractive index.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. EP 1367418 to Lazaro Villa et al.

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5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Wong whose telephone number is 571-272-2363. The examiner can normally be reached on Monday through Friday, 830AM - 430PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EW

Frank G. Font Supervisory Patent Examiner Technology Center 2800

Frank St Fort